

Series HXP 200

Robust power resistor with screw terminal PCB. The connection remains secure regardless of vibration profile. Ideal for harsh commercial or automotive inverter and on-board charger applications.

Features

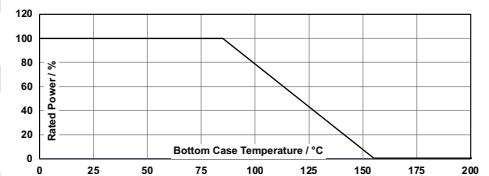
- All-round 200 W continuous power resistor
- Optional: active resistor, passive resistor, temperature sensor



Technical Specifications

Resistance value	0.1 Ω to 1 MΩ
Resistance tolerance	± 1 % to ± 10 %
Temperature coefficient	> 1 Ω: ± 250 ppm/°C (referenced to 25 °C, ΔR taken at ~ 105 °C)
Power rating	200 W at 85 °C bottom case temperature
Short time overload	1.25x rated power at 85 °C bottom case temperature for 10 s, ΔR = 0.4 % max. (for conf. 1, 2 and 3)
Operating voltage	500 V up to 1500 V = "S"-version up to 1500 V + higher pulse capability = "U"-version on special request
Partial discharge	up to 2000 Vrms / 80 pC (Tests only on special request)
Dielectric strength	4000 V DC
Insulation resistance	> 10 GΩ at 1000 V DC
Isolation voltage between R1 & R2 & R3	500 V DC (1000 V DC on special request)
Protection class	acc. to IEC 950/CSA22.2 950/M-89 and EN 60950.88:2
Comparative Tracking Index (CTI)	standard > 200 V (> 600 V on special request = "H"-version)
Thermal resistance	< 0.35 K/W
Capacitance/mass	45 pF (typical), measuring frequency 10 kHz
Serial inductivity	HXP-1 typical 40 nH, measuring frequency 10 kHz
Operating temperature	- 55 °C to + 155 °C
Mounting - torque for base plate (static)	1.3 Nm to 1.5 Nm M4 screws
Mounting - torque for contacts (static)	1.1 Nm to 1.3 Nm M4 screws, screw-in depth max. 5 mm
Weight	~ 26 g

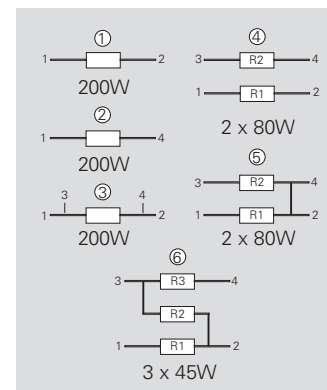
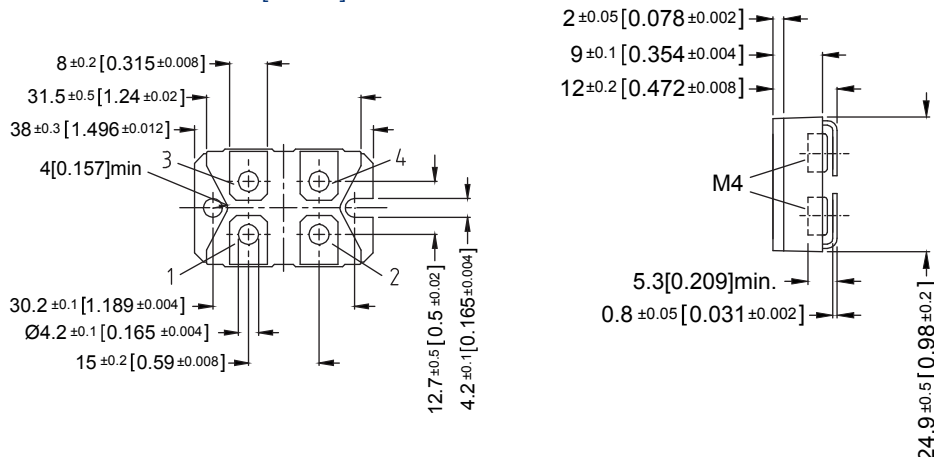
Derating Curve



Typical Pulse Load (initial resistor temperatur ≤ 85 °C)

60 J for $\tau = 0.1$ s
80 J for $\tau = 0.2$ s
140 J for $\tau = 0.5$ s

Dimensions in mm [inches]



Version 5: resistance between contact 2 and 4 approx. 3 mΩ



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